

M300 Series Tapping Machines

DESCRIPTION

The **M300 series** of TAPHAWK™ tapping machines offer a variety of tapping options with the M312 providing a tapping size range of 3” to 12”, with a boring bar travel of 42 inches; the M316 provides a 3” to 16” tapping range (66 inches of bar travel); with the M320 providing a 3” to 20” tapping range (66 inches of bar travel).

The M312 machine may be air powered by a vane-type air motor with 2:1 reduction gearing, or hydraulically powered via a dedicated diesel hydraulic power unit. The M316 and M320 are both hydraulically powered. While a gasoline powered unit is available, we recommend the use of a diesel engine unit for the hydraulic option. This provides for added safety in hazardous areas, as well as an engine with a flatter torque curve and longer life.

FEATURES

As with all Blackhawk tapping machines, the Model M312 is capable of operating up to 1480 PSI, allowing safe operations on lines up to full ANSI 600# operating pressures. The M316 and M320 machine is operated by dual hydraulic motors, providing speed control features for ease of use.

- Power Options: Hydraulic
- Auto Feed Rate: 0.003 or 0.005/Rev.
- Manual Lower in Rate: 4.5 TPI

Standard packing is rated at 1480 PSIG at 100°, or 700 PSIG at 400° F. Severe packing is rated at 700 PSIG at 700° F. We recommend that for most normal operations, standard packing be used. Severe service packing relies upon higher temperatures to provide sealing capabilities. For higher temperature operations, please consult Blackhawk.

M300 Series Tapping Machines

Description	Style Number
Tapping Machine w/42 Inches of Travel	M312
Tapping Machine w/66 Inches of Travel	M316
Tapping Machine w/66 Inches of Travel	M320

M300 Series Includes the Following Items

Description	Style Number
Transportation Skid	CONSULT
Measuring Rod	FACTORY
Bleeder Valve	
Valve Nipple	
Inner Packing Wrench	
Outer Packing Wrench	
Inner Standard Packing	
Outer Standard Packing	
Operations Manual (English)	
4” 600 RTJ Ring Gasket	

Hydraulic Options

	Style Number
(1) Hydraulic Motor & Control System	M312-STD-HM1 M316-STD-HM2 M320-STD-HM3
(2) Diesel/Hydraulic Power Unit	PER MACHINE

Hydraulic Power Unit

Diesel Engine: Hatz 20HP

Pump: Vane type rated at 17-20 GPM at 1000psig

Tank: 40 U.S. Gallons

Pressure Relief Valve: Factory preset @ 1100psig

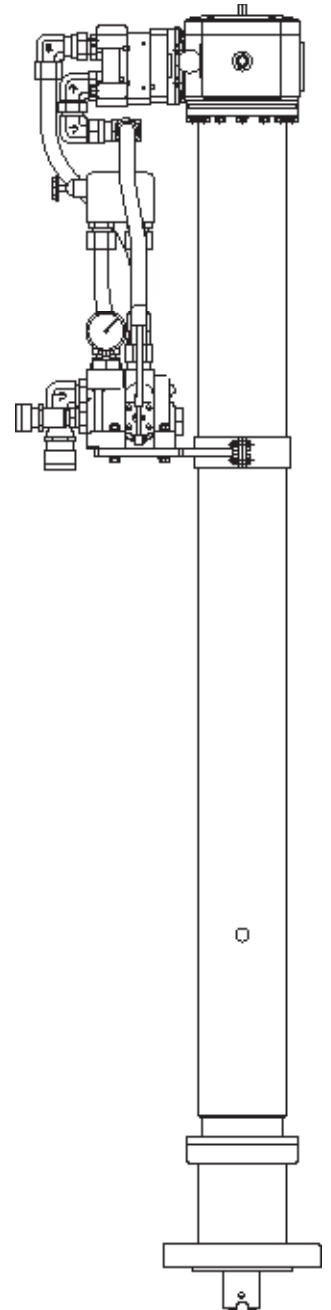
Starting System: 12V Electric

Fluid Level/Temperature: Indicator on Tank

Mounting: Skid mounted

Hoses: 50 Ft. pressure and return hoses included

Couplings: Aeroquip quick release/positive shutoff or equivalent



M300 Series Accessories



Pilot Drills	Description	Part Number
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3" Standard Pilot Drill	5900-0003-00
4" Standard Pilot Drill	5900-0004-00
6" Standard Pilot Drill	5900-0006-00
8" Standard Pilot Drill	5900-0008-00
10" Standard Pilot Drill	5900-0010-00
12" Standard Pilot Drill	5900-0012-00
14" Standard Pilot Drill	5900-0014-00
16" Standard Pilot Drill	5900-0016-00
18" Standard Pilot Drill & 16" LineStop Pilot Drill	5900-0018-00
20" Standard Pilot Drill & 18" LineStop Pilot Drill	5900-0020-00
22" Standard Pilot Drill & 20" LineStop Pilot Drill	5900-0022-00

Note: High speed steel tips are standard on all cutters unless otherwise specified. The grade of high speed steel used allows for significantly higher hardness factors (Rockwell 67-68) without a corresponding loss of ductility and resistance to fracture.

Standard Cutters	Description	Part Number
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3" Standard Cutter	3002-0438-00
4" Standard Cutter	3003-0438-00
6" Standard Cutter	3005-0469-00
8" Standard Cutter	3007-0312-00
10" Standard Cutter	3009-0500-00
12" Standard Cutter	3011-0500-00
14" Standard Cutter	3002-0750-00
16" Standard Cutter	3002-0688-00
18" Standard Cutter	3002-0688-00
20" Standard Cutter	3002-0688-00

All cutters other than hole saws and twist drills, are available tipped carbide

LineStop Cutters	Description	Part Number
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4" LineStop Cutter	3003-0938-00
6" LineStop Cutter	3005-0938-00
8" LineStop Cutter	3007-0875-00
10" LineStop Cutter	3009-0875-00
12" LineStop Cutter	3011-0812-00
14" LineStop Cutter	3002-0062-00
16" LineStop Cutter	3002-0062-00
18" LineStop Cutter	3002-0062-00
20" LineStop Cutter	3002-0062-00

Cutter Holder	Description	Part Number
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3" - 4" Cutter Holder	CH-M300-034
6" - 12" Cutter Holder	CH-M300-612
14" - 20" Cutter Holder	CH-M30-1420

LineStop Plug Holder	Description	Part Number
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4" - 12" LineStop Plug Holder	M300-PH-X
14" - 20" LineStop Plug Holder	M300-PH-X

Blackhawk, Dresser or Dresser, Inc. and any subsidiary or associate company, reserves the right to vary or alter the specification of any equipment as quoted, while maintaining or improving the operating characteristics.

Tapping Adapters	Description	Part Number
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3" - 20" 150RF Tapping Machine Adapter	TA-M300-XX-150
3" - 20" 300RF Tapping Machine Adapter	TA-M300-XX-300
3" - 20" 600RF Tapping Machine Adapter	TA-M300-XX-600



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